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January 25, 2012

Ms. Marlene S. Dortch  
Secretary  
445 12<sup>th</sup> Street S.W.  
Room 2-B450  
Washington, DC 20554

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LAKE TAHOE  
HO CHI MINH CITY

**Re: WT Docket No. 99-87**

Dear Ms. Dortch:

Submitted herewith, on behalf of the Pennsylvania State Police is a Request for Waiver of Commission narrow-banding Rules. This Request relates to the licenses listed in the Appendix to the attached Request.

The Request is submitted in accordance with the guidance set forth in Public Notice, DA 11-1189 (July 13, 2011).

Any questions regarding this matter should be directed to the undersigned.

Respectfully submitted,

  
William K. Keane

Enclosure

In the matter of:

Implementation of Sections 309(j) and 337 of  
The Communications Act of 1934 as Amended;

Promotion of Spectrum Efficient Technologies  
On Certain Part 90 Frequencies;

**REQUEST FOR WAIVER OF COMMISSION RULES**  
**EXPEDITED ACTION REQUESTED**

**Pennsylvania State Police**  
**FRN: 0003175122**  
**Petitioner**

## TABLE OF CONTENTS

I.	INTRODUCTION.....	- 2 -
II.	BACKGROUND.....	- 2 -
III.	THE NARROWBANDING PLAN .....	- 5 -
IV.	FUNDING.....	- 6 -
V.	NARROWBANDING INTER-DEPENDENCE .....	- 6 -
VI.	EFFECTS ON OTHER LICENSEES.....	- 7 -
VII.	WAIVER IS WARRANTED .....	- 8 -
	Appendix A - List of Active PSP VHF Licenses.....	A-1
	Appendix B - Excerpt from Senate Bill No. 857.....	B-1
	Appendix C - List of Active OA 800 MHz Licenses.....	C-1
	Appendix D - Proposed Locations for MASTR III Conversion from Base Station to Repeater Sites.....	D-1
	Appendix E - List of Active Co-channel Licensees in Pennsylvania.....	E-1
	Appendix F - List of Active Co-channel Licensees in Counties Adjacent to the Pennsylvania Border.....	F-1
	Appendix G - PSP VHF Applications.....	G-1

## **I. INTRODUCTION**

The Pennsylvania State Police (PSP or the State Police) respectfully requests a waiver of 47 C.F.R. § 90.209(b) Note 3 until December 31, 2014 to complete the conversion to 12.5 kHz or equivalent technology. In support, PSP provides the below information for your consideration.

## **II. BACKGROUND**

PSP is responsible for patrolling 83 percent of Pennsylvania's land mass (46,058 square miles) and 62 percent of Pennsylvania's highways (including all the interstates). PSP also provides full or part time police protection to over 60 percent of Pennsylvania's municipalities, representing 27 percent of the population. The Department is comprised of 16 regional Troops and 81 local stations to cover a 67 county area.

The existing PSP VHF radio system consists of 2,500 mobile VHF radios, 1,200 portable radios, 80 dispatch stations, and 109 VHF base stations. The current VHF equipment was purchased over 25 years ago, and is not narrowband-capable.

PSP and the Commonwealth have been in the process of planning and implementing a migration to an 800 MHz system. Pursuant to the terms of Pennsylvania Legislative Act 148 (Appendix B), the legislature envisioned one Statewide two-way voice and data radio system for all Commonwealth agencies, including the State Police. The project and management of the system is centralized within the Office of Public Safety Radio Services (OPRS). OPRS is part of the Commonwealth's enterprise-wide Office of Information Technology, which in turn reports to the Governor's Office of Administration. Budgeting and planning for the project assumed that PSP's VHF mobile radios would be removed from patrol vehicles in favor of the 800 MHz system. Therefore, it was not anticipated that there would be any need to narrowband the VHF system. Instead, plans were in place to decommission the legacy system as soon as PSP was fully on-line with, and dependent upon, the 800 MHz network.

Now referred to as the Pennsylvania Statewide Radio Network (PA-STARNET), the 800 MHz system is currently comprised of 248 high profile radio tower sites and 739 microcell sites. There are 44 more sites in the design stage. Since 1999, \$305 million has been spent on new towers and compounds, equipment shelters, microwave networks, and land mobile radio components. The PA-STARNET subscriber airlink is predominantly 800 MHz OpenSky® trunked digital technology, with use of radio frequencies highly optimized by interweaving multiple voice and data streams over a single channel through sophisticated digital switching and utilizing IP protocols. The Commonwealth's 800 MHz licenses are listed in Appendix C. Aside from 800 MHz, the PA-STARNET integrates VHF NEPF repeaters, PSP analog VHF mobile-to-mobile channel repeaters, UHF repeaters on the interoperability frequencies, VHF portable coverage within state parks, and most recently, a 700 MHz P25 interoperability overlay. The network backbone employs licensed/unlicensed microwave, MPLS network management, connections to fiber, and leased circuits.

PSP began cutting over to the 800 MHz system in 2006, and completed migration to the 800 MHz radios as its primary dispatch and communication system statewide in 2010. Migration was delayed due to site selection and site acquisition issues, and issues with vendor hardware and software. These delays compressed the time frame for OPRS and PSP to evaluate the fully implemented system prior to the FCC narrowbanding deadlines.

PA-STARNET provides the State Police with mobile data capability and also allows for direct two-way voice communication across the Commonwealth. This capability enables PSP to move away from localized dispatch at the 81 local stations and allows for interoperability with 67 of the 911 centers across the Commonwealth. PA-STARNET also provides many other features never before available in a PSP radio system such as encryption, talk-groups, automatic vehicle locator, and other features.

However, like with other advanced technology systems, there are currently limitations to the system which adversely impact the PSP. Generally, these limitations are advisories/outages, scheduled and unscheduled maintenance, and coverage.

In 2011, the PA-STARNET network operations center (NOC) issued 2,000 system advisories/outages. Some of these outages lasted a few seconds, while others lasted hours. Although these advisories and outages were predominately localized incidents, some involved larger geographic areas, often compromising communications since a PSP Trooper can be located anywhere, at any time, in the Commonwealth. Required maintenance on the PA-STARNET system has also resulted in localized and regional outages during the maintenance windows. PSP stations have been able to revert to the legacy VHF wideband system when these advisories and outages impacted operations. In effect, the legacy VHF system has provided a layer of public safety communications redundancy for the 800 MHz system.

The geography and terrain of the Commonwealth, particularly in the northern tier, have made improving coverage challenging. In the past several years, more 800 MHz sites were added to address the coverage issues and provide redundancy in case of outages at other sites. Approximately 217 fully hardened sites (fenced compound, generator, licensed microwave) provide coverage to 85 percent of the state's land area. However, the remaining land area coverage leverages commercial data circuits in remote locations, dependent on the public electricity grid with 24-48 hour battery back-up. Commercial telco and commercial electric utility sites are necessitated by the terrain limitations of 800 MHz propagation, especially prevalent along rural and remote roadways within the 45,000 square mile patrol area for PSP. Reliance on commercial power and commercial telecommunications lines has directly resulted in 90 percent of the 2,000 system advisories/outages.

Also, while PA-STARNET has given PSP many interoperability options that have served to improve operations, more than half of the Commonwealth's public safety agencies have systems other than 700/800 MHz. PSP has used the legacy VHF system as an additional layer of interoperability to communicate with these agencies during unplanned multi-agency events and when the 800 MHz system is not available.

OPRS has continually worked to improve coverage on the PA-STARNET system. Many improvements have been made to PA-STARNET and progress continues.

However, given the issues discussed above, last year a dialogue was initiated between PSP and OPRS that looked toward retaining VHF mobile radios and control stations for PSP. Due to the age of the equipment, it was determined not feasible to retrofit the current VHF system (to include base station, dispatch, mobile, and portable radios) to narrowband operation. Replacing the legacy VHF system on a one-for-one basis with narrowband equipment would be cost-prohibitive. Accordingly, PSP and OPRS jointly chose to pursue a VHF repeater system, minimizing initial expenditures, using newer PA-STARNET infrastructure that can be expanded (if needed) after initial narrowbanding.

New VHF narrowband analog repeaters will provide a critical layer of redundancy for PA-STARNET and PSP. VHF narrowband repeaters and mobile radios will provide improved off-network coverage, additional coverage in rural areas where 800 MHz is terrain limited, additional interoperability using shared VHF frequencies, and allow for back-up communications during obtrusive maintenance windows required by telecommunication networks. Analog VHF is the most cost-effective means to fill coverage gaps and provide redundancy required with both factors increasing overall statewide reliability of public safety communications.

The VHF solution being pursued by the State Police is similar to that of other statewide law enforcement agencies which likewise operate with multiple radios. Delaware, Maryland, and West Virginia operate with low-band radios for wide-area communications. Numerous other states are deploying statewide hybrid 800 MHz and VHF solutions, including Tennessee and Oregon.

### **III. THE NARROWBANDING PLAN**

PSP and OPRS have developed the fundamental system requirements for a narrowband repeater system, and PSP is now in a testing phase for narrowband mobile radios. OPRS has initiated the process of deploying VHF repeater pairs at existing sites. A list of pending applications can be found in Appendix G.

The tentative timeline for development and deployment of the narrowband VHF repeater system is outlined in the table below:

Begin Date	End Date	Activity
July 2012	December 2012	Engineer/design infrastructure and OPRS/PSP finalize the narrowbanding of existing PSP VHF licenses in preparation for new system implementation.
December 2012	December 2014	Installation of VHF mountain top repeaters.
December 2012	December 2014	Installation of 80 dispatch site radios.
December 2012	December 2014	Installation of 2500 mobile radios. <sup>1</sup>

#### **IV. FUNDING**

Funding for narrowband-compliant mobile radio equipment has been included in the proposed PSP budget for Fiscal Year 2012-13. OPRS is planning on spending \$1.5 million for capital equipment to add VHF repeaters at 51 sites using existing antennas. Obtaining the necessary appropriations will take up to two years from the beginning of the next budget cycle (July, 2012). Until that time, the existing wideband mobile radios must stay in operation.

#### **V. NARROWBANDING INTER-DEPENDENCE**

PSP maintains control of its frequencies and is not dependent on other agencies' narrowbanding efforts. Rather, interoperability stems from PSP's ability to program its radios with the other agencies' channels. Any ongoing narrowbanding or frequency migration by these other agencies can be easily programmed into PSP's new radios.

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<sup>1</sup> The PSP Special Emergency Response Team (S.E.R.T.) maintains a limited amount of mobile and portable radios that utilize UHF frequencies. That license (WXP370) and equipment have already been narrowbanded. The UHF frequencies and aforementioned license are not part of this Waiver Request.



## VI. EFFECTS ON OTHER LICENSEES

PSP does not anticipate any adverse effects on other licensees from a grant of this Request. PSP frequencies are all coordinated and the interference/service contours will not change. Co-channel licensees are listed in Appendix E with PSP licenses highlighted in blue. PSP is the sole Pennsylvania licensee for 10 frequencies and has coordinated co-channel Pennsylvania licensees on 13 frequencies. For counties immediately adjacent to the Pennsylvania border, PSP is the sole licensee for three frequencies and a co-channel licensee for 20 frequencies. Refer to Figures 1 and 2, and Appendix F for specifics on each frequency.

Thus, there should not be any affected non-PSP frequencies within the previously coordinated PSP contours. PSP's current system is not creating interference issues with other co-channel licensees. We expect no new co-channel interference to be created as a result of the granting of this request. Adjacent channel interference, for both PSP and other entities, is expected to diminish due to the increased guard channel as other licensees narrowband. Of course, PSP is not in a position to make definitive statements about licensees which may be contemplating a modification of their system incident to narrowbanding.

*Figure 1: Pennsylvania co-channel license counts*

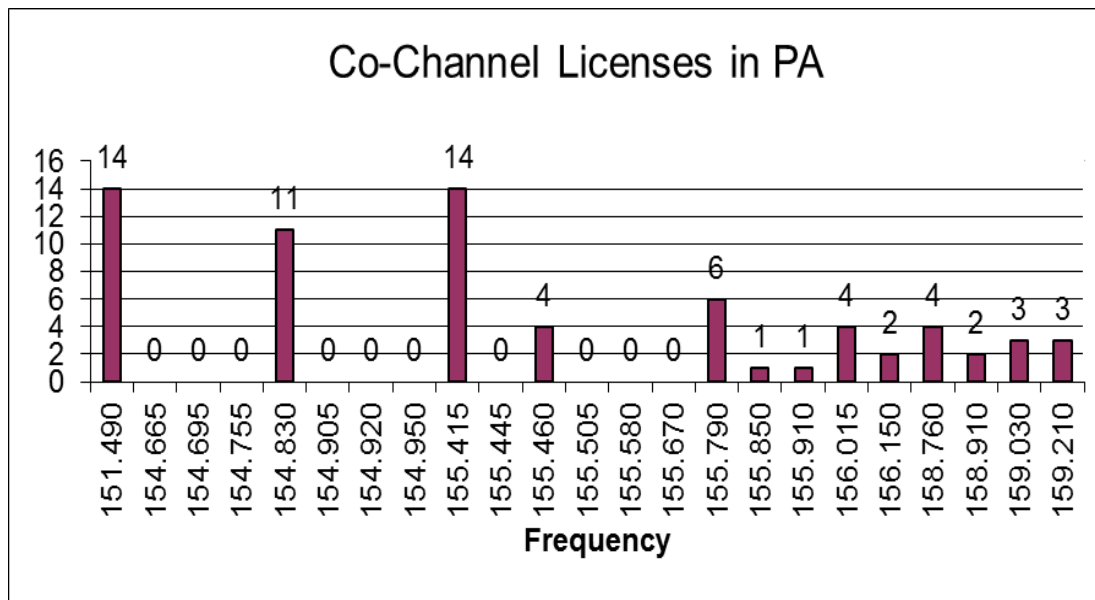
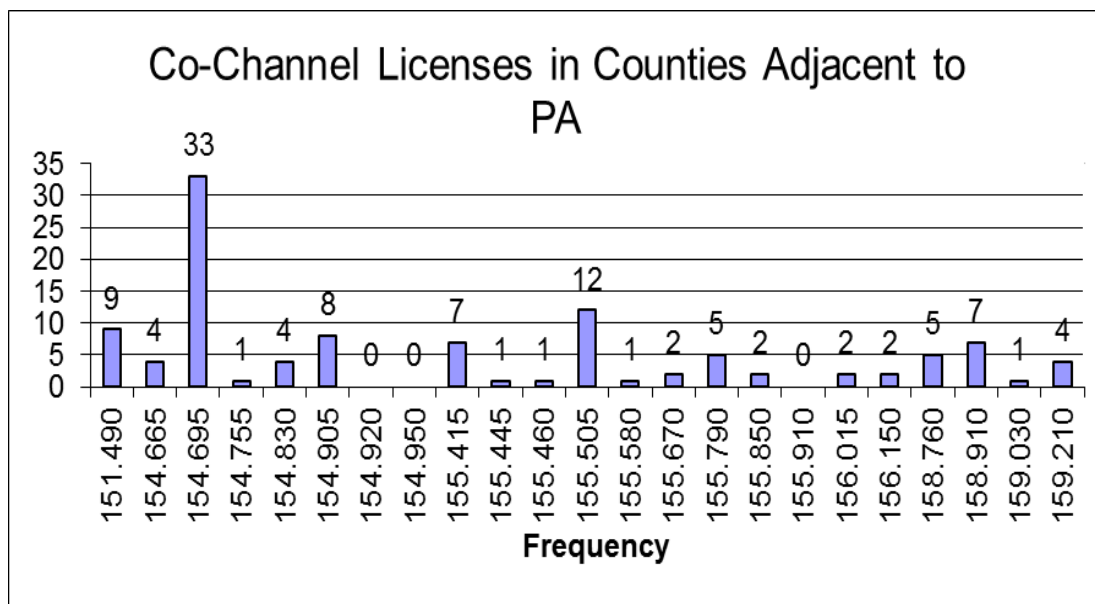


Figure 2: Co-channel licenses in counties adjacent to Pennsylvania



## VII. WAIVER IS WARRANTED

Commission Rule 1.925(b) prescribes that waivers may be granted where:

- (i) The underlying purpose of the rule(s) would not be served or would be frustrated by application to the instant case, and that a grant of the requested waiver would be in the public interest;

or

- (ii) In view of unique or unusual factual circumstances of the instant case, application of the rule(s) would be inequitable, unduly burdensome or contrary to the public interest, or the applicant has no reasonable alternative.<sup>2</sup>

Under Section 1.3 of the Commission's Rules, the Commission may exercise its discretion to waive a rule for "good cause shown." The waiver process allows the Commission to "maintain the fundamentals of principled regulation without sacrifice of administrative flexibility and feasibility."<sup>3</sup>

Improvement in spectrum efficiency by the adoption of more advanced technology is the primary goal of narrowbanding. In limiting narrowbanding to the VHF

<sup>2</sup> See also Public Notice, DA 11-1189, July 13, 2011.

<sup>3</sup> *WAIT Radio v. FCC*, 418 F.2d 1153, 1159 (D.C. Cir. 1969).

and UHF bands, the Commission observed that the private land mobile spectrum above 800 MHz was already characterized by incentives for licensees to invest in spectrum-efficient technology like trunking.<sup>4</sup> Here, PSP and the Commonwealth have been pursuing the spectrum efficiency which Commission policies seek to foster, namely a complete migration to 800 MHz with all the advanced features, functions, and spectrum-efficient equipment that band can offer. But for the challenges encountered in the deployment of this complex, Statewide system, the State Police would not need the instant waiver.

Denial of this Request would, in effect, penalize a licensee which has made good faith attempts to accomplish the very spectrum efficiency upgrade which the Commission seeks, thereby frustrating the overarching purpose of the policy.

In the alternative - and at a minimum - a waiver of the January 1, 2013 date is warranted since application of the rule would deprive State Police Troopers of the back-up communications systems they will need as the 800 MHz system is optimized. This would be clearly detrimental to the State Troopers and to the citizens of the Commonwealth they are sworn to serve.

Based on the foregoing, the State Police respectfully requests a waiver to and including December 31, 2014, to attain an efficiency standard of 12.5 kHz for the licenses shown in Appendix A. Upon successful frequency coordination for the repeater sites listed in Appendix D and narrowbanded equipment installation, all unused licensed frequencies will be promptly cancelled.

Respectfully submitted,



Colonel Frank Noonan  
Commissioner  
Pennsylvania State Police

January 24, 2012

<sup>4</sup> *Implementation of Sections 309(j) and 337 of the Communications Act of 1934 as Amended, Second Report and Order, and Second Further Notice of Proposed Rule Making, WT Docket No. 99-87, FCC 03-34, 18 FCC Rcd 3034 ¶13 (2003).*

## Appendix A

List of Active PSP VHF licenses

License	FRN	Group	Exp. Date
KAP963	0003175122	PW	9/15/2021
KB46156	0003175122	PW	1/9/2014
KDN501	0003175122	PW	8/24/2014
KLE766	0003175122	PW	12/15/2012
KM2926	0003175122	PW	2/16/2013
KN6259	0003175122	PW	12/17/2015
KN9796	0003175122	PW	11/30/2015
KNNG311	0003175122	PW	1/11/2016
KNNG312	0003175122	PW	1/11/2016
KNNG313	0003175122	PW	1/11/2016
KNNG314	0003175122	PW	1/11/2016
KSK964	0003175122	PW	3/16/2013
KSO688	0003175122	PW	10/18/2015
KSO710	0003175122	PW	11/25/2021
KSO727	0003175122	PW	5/7/2012
KXH312	0003175122	PW	12/9/2021
KXH315	0003175122	PW	9/30/2013
KXH316	0003175122	PW	1/6/2013
KXH317	0003175122	PW	5/1/2012
KXH318	0003175122	PW	5/3/2015
KXH319	0003175122	PW	12/9/2021
KXH320	0003175122	PW	5/7/2012
KXH321	0003175122	PW	7/23/2015
KXH322	0003175122	PW	5/15/2014
KXH325	0003175122	PW	12/10/2012
KXH326	0003175122	PW	1/8/2014
KXH328	0003175122	PW	5/7/2012
KXH329	0003175122	PW	5/1/2012
KXH330	0003175122	PW	5/11/2012
KXH331	0003175122	PW	6/12/2012
KXH332	0003175122	PW	5/15/2014
KXH333	0003175122	PW	12/9/2021
KXH334	0003175122	PW	7/14/2012
KXH335	0003175122	PW	5/7/2012
KXH336	0003175122	PW	9/14/2012
KXH337	0003175122	PW	5/7/2012
KXH338	0003175122	PW	3/25/2014

License	FRN	Group	Exp. Date
KXH339	0003175122	PW	4/29/2012
KXH340	0003175122	PW	10/13/2013
KXH342	0003175122	PW	2/2/2014
KXH343	0003175122	PW	7/14/2012
KXH344	0003175122	PW	11/17/2021
KXH345	0003175122	PW	10/2/2014
KXH346	0003175122	PW	5/7/2012
KXH348	0003175122	PW	12/30/2013
KXH351	0003175122	PW	7/21/2012
KXH352	0003175122	PW	7/21/2012
KXH353	0003175122	PW	2/22/2013
KXH355	0003175122	PW	5/11/2012
KXH356	0003175122	PW	11/6/2015
KXH361	0003175122	PW	9/28/2012
KXH362	0003175122	PW	10/18/2015
KXH363	0003175122	PW	7/14/2012
KXH364	0003175122	PW	6/26/2015
KXH365	0003175122	PW	8/22/2015
KXH366	0003175122	PW	12/24/2015
KXH367	0003175122	PW	7/14/2013
KXH368	0003175122	PW	7/14/2012
KXH370	0003175122	PW	5/7/2012
KXH371	0003175122	PW	11/5/2012
KXH372	0003175122	PW	5/11/2012
KXH373	0003175122	PW	9/8/2012
KXH375	0003175122	PW	5/11/2012
KXH376	0003175122	PW	5/4/2012
KXH377	0003175122	PW	5/7/2012
KXH378	0003175122	PW	10/3/2014
KXH379	0003175122	PW	7/22/2014
KXH380	0003175122	PW	7/31/2021
KXH381	0003175122	PW	2/18/2014
KXH382	0003175122	PW	7/2/2021
KXH383	0003175122	PW	5/15/2014
KXH384	0003175122	PW	6/12/2012
KXH385	0003175122	PW	10/3/2014
KXH386	0003175122	PW	7/1/2012
KXH387	0003175122	PW	10/21/2012
KXH388	0003175122	PW	6/4/2012
KXH389	0003175122	PW	1/13/2022

License	FRN	Group	Exp. Date
KXH390	0003175122	PW	8/31/2013
KXM889	0003175122	PW	5/6/2012
KXM890	0003175122	PW	5/4/2012
KXM891	0003175122	PW	7/22/2014
KXM893	0003175122	PW	5/7/2012
KXO901	0003175122	PW	5/7/2012
KXO903	0003175122	PW	8/5/2013
KXO906	0003175122	PW	5/7/2012
KXO915	0003175122	PW	5/4/2012
KXO921	0003175122	PW	12/11/2021
KXO922	0003175122	PW	5/4/2012
KXO932	0003175122	PW	10/18/2015
KXU261	0003175122	PW	5/7/2012
KZC557	0003175122	PW	4/18/2013
KZC686	0003175122	PW	5/1/2012
WDQ887	0003175122	PW	2/16/2013
WDQ898	0003175122	PW	2/17/2013
WNWP460	0003175122	PW	6/16/2014
WNYZ968	0003175122	PW	4/7/2012
WNZN651	0003175122	PW	6/4/2012
WPAR858	0003175122	PW	10/1/2012
WPD1891	0003175122	PW	10/12/2013
WPDM594	0003175122	PW	10/18/2013
WPDx281	0003175122	PW	12/15/2013
WPFA965	0003175122	PW	6/8/2014
WPGX918	0003175122	PW	11/6/2015
WPJP607	0003175122	PW	8/21/2021
WPJP609	0003175122	PW	8/21/2021
WPKU625	0003175122	PW	7/21/2012
WPTB419	0003175122	PW	8/22/2021
WQGL628	0003175122	PW	2/23/2017
WQGL629	0003175122	PW	2/23/2017
WQGL632	0003175122	PW	2/23/2017
WQGL634	0003175122	PW	2/23/2017
WQGL635	0003175122	PW	2/23/2017
WQGL636	0003175122	PW	2/23/2017
WQGL638	0003175122	PW	2/23/2017
WQGN636	0003175122	PW	3/9/2017
WQHA456	0003175122	PW	6/11/2017
WQHx837	0003175122	PW	11/28/2017

License	FRN	Group	Exp. Date
WQIE564	0003175122	PW	1/17/2018
WQJS621	0003175122	PW	12/15/2018
WQKR950	0003175122	PW	8/27/2019
WYE866	0003175122	PW	2/16/2013
WYF420	0003175122	PW	2/16/2013
WYF421	0003175122	PW	6/28/2015
WYF422	0003175122	PW	2/16/2013
WYF423	0003175122	PW	2/16/2013
WYF424	0003175122	PW	2/17/2013
WYF426	0003175122	PW	2/17/2013
WYF427	0003175122	PW	8/6/2021
WYF428	0003175122	PW	2/17/2013

## **Appendix B**

### **Excerpt from Senate Bill No. 857**

PRIOR PRINTER'S NO. 907 PRINTER'S NO. **2459**  
**THE GENERAL ASSEMBLY OF PENNSYLVANIA**  
**SENATE BILL**

#### **No. 857 Session of 1995**

INTRODUCED BY TILGHMAN, APRIL 12, 1995

AS RE-REPORTED FROM COMMITTEE ON APPROPRIATIONS, HOUSE OF  
REPRESENTATIVES, AS AMENDED, NOVEMBER 25, 1996

#### SECTION 3. ITEMIZATION OF PUBLIC IMPROVEMENT PROJECTS.

ADDITIONAL CAPITAL PROJECTS IN THE CATEGORY OF PUBLIC  
20 IMPROVEMENT PROJECTS TO BE CONSTRUCTED OR ACQUIRED BY  
THE DEPARTMENT OF GENERAL SERVICES, ITS SUCCESSORS OR  
ASSIGNS, AND TO BE FINANCED BY THE INCURRING OF DEBT, ARE  
HEREBY ITEMIZED, TOGETHER WITH THEIR RESPECTIVE ESTIMATED  
FINANCIAL COSTS, AS FOLLOWS:

TOTAL PROJECT

PROJECT ALLOCATION

(1) OFFICE OF ADMINISTRATION \$50,941,000

(I) STATEWIDE MOBILE RADIO AND MICROWAVE SYSTEM

(A) COMMUNICATION AND INFORMATION INFRASTRUCTURE, INCLUDING  
APPROXIMATELY 200 SITES LOCATED THROUGHOUT THIS  
COMMONWEALTH FOR TRANSMISSION OF VOICE AND DATA  
COMMUNICATION CONNECTED BY A DIGITAL MICROWAVE SYSTEM TO  
FORM A STATEWIDE MOBILE RADIO NETWORK, LAND ACQUISITION,  
ANTENNAS AND SITE EQUIPMENT ENCLOSURES 50,941,000

(BASE PROJECT ALLOCATION - \$38,615,000)

(DESIGN AND CONTINGENCIES -\$11,826,000)

(LAND ALLOCATION - \$500,000)



## Appendix C

### List of Active OA 800 MHz Licenses

License	FRN	Group	Exp. Date
WPEF520	0003178472	YE	2/28/2014
WPFN314	0003178472	YE	8/23/2014
WPGX755	0003178472	YE	4/21/2015
WPTZ795	0003178472	SL	5/14/2017
WPWD808	0003178472	YE	10/24/2012
WPWD811	0003178472	YE	10/24/2012
WPWF792	0003178472	YE	11/6/2012
WPZV479	0003178472	YE	3/23/2014
WQBN820	0003178472	YE	11/15/2014
WQGI859	0003178472	GP	1/31/2017
WQJZ341	0003178472	YE	2/20/2019
WQJZ509	0003178472	YE	2/24/2019
WQMM327	0003178472	YE	9/21/2020
WQNC938	0003178472	YE	12/22/2020
WQNS443	0003178472	YE	5/9/2021
WQNS802	0003178472	YE	5/12/2021

## Appendix D

### Proposed Locations for MASTR III Conversion from Base Station to Repeater Sites.

Site	Name	Latitude	Longitude	License
ALLE76	State Office Building	40.44056	-80.0058	WQGL632
BEAV02	Raccoon Creek	40.49644	-80.4203	WQGL632
BEDF02	Martin Hill	39.82994	-78.5435	WQGL628
BERK02	Hopewell	40.20147	-75.813	WQGL636
BERK04	Port Clinton	40.60425	-75.9913	WQGL638
BLAI02	Martinsburg	40.293	-78.2606	WQGL628
BRAD41	Robwood III	41.65258	-76.4109	WQGL635
BUCK40	Nockamixon State Park	40.44622	-75.251	WQGL636
BUTL01	PGC: Hilliards	41.08989	-79.8539	WQGN636
CAMB02	Lower Yoder	40.37078	-78.9831	WQGL628
CAME05	Truman	41.45922	-78.3679	WQGL632
CENT04	Rush	40.732	-78.3253	WQGL634
CENT08	Little Flat	40.75311	-77.7557	WQGL634
CLEA51	SCI Bootcamp	41.18339	-78.1438	WQGL634
CLIN02	Tamarack	41.39742	-77.8543	WQGL632
CLIN41	Rainsares III	41.05089	-77.3798	WQGL629
COLU01	Catawissa	40.93953	-76.4252	KXH332
COLU02	Vandine	41.14744	-76.5973	WQGL635
CRAW01	Townville	41.66742	-79.8394	KXH388
CUMB04	Big Flat Heliport	39.98869	-77.4043	WQGL638
DAUP01	Ellendale	40.42036	-76.8122	WQGL638
ERIE92	Washington Stockpile	41.88256	-80.1903	WQGN636
FAYE01	Pondfield	39.78258	-79.7017	KXH381
FORE07	Tylersburg	41.46583	-79.2844	WQGN636
GREE08	Waynesburg PDOT	39.798	-80.3813	WQGL632
HUNT01	Loop Lookout	40.49668	-78.1316	WQGL634
INDI01	Clymer Fire Tower	40.66728	-78.9968	KXH377
JEFF02	Hays Lookout	41.31756	-78.9946	KXH361
JUNI05	Ickesburg PGC	40.47744	-77.3858	WQGL634
LANC01	Cornwall	40.24113	-76.3713	WQGL638
LAWR06	Grindstone	40.912	-80.1964	WQGN636
LUZE01	Wyoming Mtn	41.15883	-76.1691	WQGL635
LYCO02	Waterville	41.31694	-77.3436	KXO915
MCKE01	Port Allegheny	41.80894	-78.3685	WQGL628
MERC92	New Vernon Stockpile	41.39353	-80.1719	WQGN636
MONR03	Coolbaugh	41.16369	-75.3189	WQGL635
MONT01	Montour	40.95897	-76.7084	WQGL635
PHIL02	PSP Phila. HQ. Troop K.	39.99706	-75.2174	WQGL636
PIKE01	High Knob	41.29967	-75.1253	WQGL638

Site	Name	Latitude	Longitude	License
POTT12	Denton Hill	41.75978	-77.8761	WQGL628
SNYD02	Richfield	40.72244	-77.1214	WQGL634
SOME06	Negro Mountain	39.80661	-79.1731	WQGL629
SULL03	Bear Wallow	41.52036	-76.7309	WQGL635
SUSQ06	Great Bend	41.90633	-75.6937	WQGL636
TIOG06	Pat Jr. Fire Tower	41.84758	-77.1564	WQGL628
WARR34	Kinzua Dam	41.83287	-79.001	WQGN636
WAYN31	Beach Lake	41.57231	-75.1916	WQGL636
WAYN33	Mount Ararat	41.78564	-75.4591	KXH345
WEST03	Beacon	40.38436	-79.6928	WQGL632
YORK16	Conewago	40.07511	-76.8048	WQGL636
YORK94	I-83 Rest	39.75483	-76.6624	WQGL638

## Appendix E

### List of Active Co-channel Licensees in Pennsylvania

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
151.490	KLF221	GRAY BROTHERS INC	0003265691	IG	7/7/2013
	KN9796	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/30/2015
	KXD438	CAPPELLI, DOMINIC J	0006510895	IG	4/16/2015
	WPBW969	CLYDE S WALTON INC	0003268109	IG	3/23/2013
	WPLT277	LACKAWANNA, COUNTY OF	0004425054	PW	1/22/2013
	WPLT303	WEATHERLY, BOROUGH OF	0003260692	PW	1/22/2013
	WPMM403	THE PENNSYLVANIA STATE UNIVERSITY	0004138897	IG	9/16/2013
	WPQB347	LANKENAU HOSPITAL	0008608622	IG	5/4/2015
	WPUT610	EAST BRANDYWINE FIRE CO.	0006708218	IG	4/30/2012
	WPXV261	WILLIAM PENN SCHOOL DISTRICT	0008490005	IG	6/16/2013
	WQDE617	BUCKEYE PARTNERS L.P.	0003253283	IG	8/5/2015
	WQDS320	SHANNON CAB CO. DBA GOLDEN LIMOUSINE	0014029862	IG	10/19/2015
	WQEP919	UNITED RADIO DISPATCHED INC	0014771224	IG	3/21/2016
	WQIA255	WASHINGTON COUNTY DEPT OF PUBLIC SAFETY	0003170339	PW	12/5/2017
	WYH351	SUSQUA VALLEY GRAIN	0014094502	IG	10/17/2015
154.665	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH342	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/2/2014
	KXH351	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/21/2012
	KXH367	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2013
	KXH370	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH376	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXH382	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/2/2021
	KXH384	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/12/2012
	KXH385	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014
	KXH386	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/1/2012
	KXH389	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/13/2022
	KXO901	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXO903	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/5/2013
	KXO915	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXU261	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	WPGX918	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/6/2015
154.695	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH318	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/3/2015
	KXH331	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/12/2012
	KXH337	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH346	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH356	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/6/2015
	KXH377	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH381	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/18/2014
	KXH382	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/2/2021
	KXH385	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014
	KXH386	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/1/2012
	KXH388	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/4/2012
	KXO901	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXO906	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	WPDM594	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/18/2013
154.755	KAP963	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/15/2021
	KDN501	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/24/2014
	KSK964	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	3/16/2013
	KSO710	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/25/2021
	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH312	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/9/2021
	KXH315	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/30/2013
	KXH316	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/6/2013
	KXH317	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXH318	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/3/2015
	KXH319	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/9/2021
	KXH320	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH321	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/23/2015
	KXH322	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/15/2014
	KXH325	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/10/2012
	KXH326	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/8/2014
	KXH328	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH329	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	KXH330	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH331	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/12/2012
	KXH332	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/15/2014
	KXH333	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/9/2021
	KXH334	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH336	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/14/2012
	KXH337	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH338	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	3/25/2014
	KXH339	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	4/29/2012
	KXH340	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/13/2013
	KXH342	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/2/2014
	KXH343	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH344	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/17/2021
	KXH345	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/2/2014
	KXH346	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH348	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/30/2013
	KXH351	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/21/2012
	KXH352	PENNSYLVANIA, COMMONWEALTH	0003175122	PW	7/21/2012

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXH353	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/22/2013
	KXH355	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH356	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/6/2015
	KXH361	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/28/2012
	KXH362	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/18/2015
	KXH363	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH364	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/26/2015
	KXH365	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/22/2015
	KXH366	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/24/2015
	KXH367	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2013
	KXH368	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH370	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH371	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/5/2012
	KXH372	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH373	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/8/2012
	KXH375	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH376	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXH377	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH378	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014
	KXH379	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/22/2014
	KXH380	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/31/2021
	KXH381	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/18/2014
	KXH382	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/2/2021
	KXH383	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/15/2014
	KXH384	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/12/2012
	KXH385	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014
	KXH386	PENNSYLVANIA,COMMONWEALTH	0003175122	PW	7/1/2012

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXH387	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/21/2012
	KXH388	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/4/2012
	KXH389	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/13/2022
	KXH390	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/31/2013
	KXM889	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/6/2012
	KXM891	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/22/2014
	KXM893	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXO901	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXO903	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/5/2013
	KXO906	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXO915	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXO921	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/11/2021
	KXO922	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXO932	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/18/2015
	KZC557	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	4/18/2013
	KZC686	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	WPDI891	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	10/12/2013
	WPDM594	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	10/18/2013
	WPFA965	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	6/8/2014
	WPGX918	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	11/6/2015
	WPJP607	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	8/21/2021
	WQGL628	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	2/23/2017
	WQGL629	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	2/23/2017
	WQGL632	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	2/23/2017
	WQGL634	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	2/23/2017
	WQGL635	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	2/23/2017
	WQGL636	PENNSYLVANIA,COMMOMWEALTH	0003175122	PW	2/23/2017



PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	WQGL638	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	2/23/2017
	WQGN636	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	3/9/2017
	WQHA456	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	6/11/2017
	WQIE564	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	1/17/2018
	WQJS621	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	12/15/2018
	WQJS621	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	12/15/2018
154.830	WBE413	LEHIGH, COUNTY OF	0003263878	PW	5/2/2015
	WBE414	LEHIGH, COUNTY OF	0003263878	PW	5/2/2015
	WBE417	LEHIGH, COUNTY OF	0003263878	PW	5/2/2015
	WBE418	LEHIGH, COUNTY OF	0003263878	PW	5/2/2015
	WBE419	LEHIGH, COUNTY OF	0003263878	PW	5/2/2015
	WBE420	LEHIGH, COUNTY OF	0003263878	PW	5/2/2015
	WCW513	LEHIGH, COUNTY OF	0003263878	PW	5/12/2012
	WCW514	LEHIGH, COUNTY OF	0003263878	PW	5/12/2012
	WDD513	LEHIGH, COUNTY OF	0003263878	PW	9/1/2012
	WNLY814	LEHIGH, COUNTY OF	0003263878	PW	6/13/2013
	WNMI759	LEHIGH, COUNTY OF	0003263878	PW	8/5/2013
	KN9796	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	11/30/2015
	KN9796	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	11/30/2015
154.905	KXH382	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	7/2/2021
	KXH385	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014
	KXH386	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	7/1/2012
	KXO901	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
154.920	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH315	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/30/2013
	KXH330	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH336	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/14/2012
	KXH353	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/22/2013
	KXH365	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	8/22/2015
	KXH375	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH382	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	7/2/2021
	KXH385	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014
	KXH386	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	7/1/2012
	KXH387	PENNSYLVANIA, COMMONWEALTH	0003175122	PW	10/21/2012

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
154.950	KXM889	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/6/2012
	KXO901	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KN6259	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/17/2015
	KN9796	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/30/2015
	KXO921	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/11/2021
155.415	KBF626	SELINGROVE, BOROUGH OF	0003234663	PW	4/24/2015
	KFA484	CHESTER, CITY OF	0004927687	PW	2/2/2012
	KNCC870	POINT, TOWNSHIP OF	0012896940	PW	4/26/2015
	KNFC523	TYRONE, BOROUGH OF	0006231286	PW	3/18/2012
	KNNK577	NORTHUMBERLAND, COUNTY OF	0006329585	PW	8/19/2013
	KOM655	GLASSPORT, BOROUGH OF	0013090451	PW	6/20/2015
	KQV797	SHAMOKIN DAM, BOROUGH OF	0013191937	PW	4/10/2015
	WDK38	LUZERNE, COUNTY OF	0003199452	PW	9/19/2015
	WNMZ457	SHILLINGTON, BORO OF	0003234622	PW	11/14/2013
	WPEZ832	BRADFORD, COUNTY OF	0007597198	PW	6/3/2014
	WPHP508	County of York	0003233640	PW	6/21/2015
	WPYD361	LUZERNE, COUNTY OF	0003199452	PW	7/22/2013
	WRG896	PENNSYLVANIA, COMMONWEALTH OF	0003251766	PW	12/7/2014
	WXT525	SNYDER, COUNTY OF	0003233210	PW	7/6/2013
	KB46156	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/9/2014
155.445	KXH315	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/30/2013
	KXH342	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/2/2014
	KXH356	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/6/2015
	KXH371	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/5/2012
	KXH373	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/8/2012
	KXH381	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/18/2014
	KXH388	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/4/2012
	KXH389	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/13/2022
	WQLN684	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	3/16/2020
	WYF426	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/17/2013
155.460	WQLN329	PENNSYLVANIA, COMMONWEALTH OF	0003178472	PW	3/12/2020
	WQLN332	PENNSYLVANIA, COMMONWEALTH OF	0003178472	PW	3/12/2020

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	WQLP375	PENNSYLVANIA, COMMONWEALTH OF	0003178472	PW	3/19/2020
	WQLP704	PENNSYLVANIA, COMMONWEALTH OF	0003178472	PW	3/23/2020
155.505	KN9796	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/30/2015
	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH315	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/30/2013
	KXH318	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/3/2015
	KXH320	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH321	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/23/2015
	KXH322	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/15/2014
	KXH325	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/10/2012
	KXH328	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH334	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH336	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/14/2012
	KXH337	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH338	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	3/25/2014
	KXH339	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	4/29/2012
	KXH340	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/13/2013
	KXH343	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH346	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH348	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/30/2013
	KXH351	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/21/2012
	KXH352	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/21/2012
	KXH353	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/22/2013
	KXH363	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH382	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/2/2021
	KXH384	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/12/2012
	KXH385	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXH386	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/1/2012
	KXH390	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/31/2013
	KXM889	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/6/2012
	KXM891	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/22/2014
	KXO906	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KZC686	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	WPFA965	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/8/2014
155.580	KDN501	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/24/2014
	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH315	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/30/2013
	KXH316	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/6/2013
	KXH317	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	KXH326	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/8/2014
	KXH328	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH329	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	KXH330	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH335	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH342	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/2/2014
	KXH343	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH344	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/17/2021
	KXH345	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/2/2014
	KXH352	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/21/2012
	KXH361	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/28/2012
	KXH368	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH370	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH371	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/5/2012
	KXH372	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXH373	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/8/2012
	KXH375	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH376	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXH377	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH378	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/3/2014
	KXH379	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/22/2014
	KXH387	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/21/2012
	KXH388	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/4/2012
	KXH389	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/13/2022
	KXM890	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXM893	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXO903	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/5/2013
	KXO915	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXO921	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/11/2021
	KXO922	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	KXO932	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/18/2015
	KZC557	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	4/18/2013
	KZC686	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	WQHA456	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/11/2017
155.670	KAP963	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/15/2021
	KSK964	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	3/16/2013
	KSO710	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/25/2021
	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH312	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/9/2021
	KXH316	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/6/2013
	KXH317	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	KXH319	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/9/2021

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXH320	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH326	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/8/2014
	KXH329	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/1/2012
	KXH331	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/12/2012
	KXH332	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/15/2014
	KXH333	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/9/2021
	KXH334	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH336	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/14/2012
	KXH337	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXH338	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	3/25/2014
	KXH339	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	4/29/2012
	KXH340	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/13/2013
	KXH355	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH356	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	11/6/2015
	KXH361	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	9/28/2012
	KXH362	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	10/18/2015
	KXH363	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2012
	KXH364	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/26/2015
	KXH365	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	8/22/2015
	KXH366	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/24/2015
	KXH367	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/14/2013
	KXH372	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/11/2012
	KXH373	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	9/8/2012
	KXH380	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	7/31/2021
	KXH381	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/18/2014
	KXH382	PENNSYLVANIA, COMMOMWEALTH OF	0003175122	PW	7/2/2021
	KXH383	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/15/2014



PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	KXM891	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	7/22/2014
	KXO901	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXO903	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/5/2013
	KXO922	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/4/2012
	WQKR950	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/27/2019
155.790	KGG332	DUBOIS, CITY OF	0003170990	PW	3/6/2012
	KGG357	PHILIPSBURG, BOROUGH OF	0005066618	PW	8/7/2015
	KNHU240	INDIANA, COUNTY OF	0003170453	PW	1/28/2013
	KSO727	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	5/7/2012
	KXX477	LACKAWANNA, COUNTY OF	0004425054	PW	9/3/2013
	WNQG223	LACKAWANNA, COUNTY OF	0004425054	PW	9/14/2014
	WQGK295	REIFFTON FIRE COMPANY	0005797501	PW	2/12/2017
155.850	WPJP607	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/21/2021
	WPKT567	ORANGE, COUNTY OF	0006682041	PW	7/2/2012
155.910	WPJP607	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/21/2021
	WPRH340	YOUNGSVILLE, BOROUGH OF	0013946827	PW	9/21/2015
156.015	KGD704	COLUMBIA, COUNTY OF	0003199478	PW	11/14/2014
	KNDN863	ELLWOOD CITY, BOROUGH OF	0003172392	PW	10/26/2013
	WDQ887	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/16/2013
	WDQ898	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/17/2013
	WYG415	PENN TOWNSHIP MUNICIPALITY	0003236841	PW	3/15/2014
	WYR515	COLUMBIA, COUNTY OF	0003199478	PW	2/8/2015
156.150	KGC824	BUTLER, COUNTY OF	0003170578	PW	9/12/2014
	WQGR401	WARREN, COUNTY OF	0003167897	PW	3/30/2017
	KB46156	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	1/9/2014
	KN9796	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/30/2015
158.760	KDN552	BETHLEHEM, CITY OF	0003199726	PW	2/2/2022
	KVA536	PENNSYLVANIA, COMMONWEALTH OF	0004140521	PW	12/3/2012
	KXH348	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	12/30/2013
	KXH371	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/5/2012
	KXH381	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/18/2014
	WNMC409	BRADFORD HOUSING AUTHORITY	0003217700	PW	7/14/2013
	WNQD331	OAKLAND, TOWNSHIP OF	0003168994	PW	8/18/2014
	WYE866	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/16/2013

PSP freqs (MHz)	Callsign	Co-channel owners (Blue background is PSP license)	FRN	Group	Exp. Date
	WYF420	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/16/2013
	WYF421	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	6/28/2015
	WYF422	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/16/2013
	WYF423	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/16/2013
	WYF424	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/17/2013
	WYF426	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/17/2013
	WYF427	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	8/6/2021
	WYF428	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	2/17/2013
158.910	WNNA325	CLARION, BOROUGH OF	0003172590	PW	11/9/2014
	WPKV705	NORTHAMPTON, COUNTY OF	0003652997	PW	8/6/2012
	KN9796	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/30/2015
	WPGX918	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/6/2015
159.030	KQU308	PENNSYLVANIA, COMMONWEALTH OF	0004140521	PW	4/17/2012
	WPTS230	SUGARCREEK, BOROUGH OF	0003168176	PW	12/4/2021
	WQHT657	MILFORD FIRE DEPT & AMBULANCE SERVICE INC	0016556326	PW	11/2/2017
	KN9796	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/30/2015
159.210	WNRD678	PHILADELPHIA, CITY OF	0003233707	PW	1/18/2015
	WPGZ845	MONROEVILLE, MUNICIPALITY OF	0003167525	PW	4/25/2015
	WQOB591	PENNSYLVANIA, COMMONWEEALTH OF	0004426763	PW	8/3/2021
	KN9796	PENNSYLVANIA, COMMONWEALTH OF	0003175122	PW	11/30/2015



## Appendix F

### List of Active Co-channel Licensees in Counties Adjacent to the Pennsylvania Border

PSP freqs (MHz)	State	Callsign	Co-channel owners	FRN	Group	Exp. Date
151.490	DE	WPPG361	DURRELL SANDBLASTING CO	0012148276	IG	12/6/2014
151.490	MD	KCD952	HAGERSTOWN CONCRETE PRODUCTS INC	0011517760	IG	1/13/2015
151.490	NJ	KNJC713	GENOA FARMS INC	0009905340	IG	3/11/2014
151.490	NY	KNJS739	JAMESTOWN BOARD OF EDUCATION	0012042438	IG	7/27/2015
151.490	NY	WPRH234	PFEIFFER GROUP INC	0004477766	YG	9/20/2015
151.490	NY	WPSD854	PFEIFFER GROUP INC	0004477766	YG	3/22/2021
151.490	NY	WPZL536	WYMAN, WILLIAM M	0003430949	IG	2/6/2014
151.490	OH	WPAT371	TURNER, BRUCE	0003068582	IG	10/5/2012
151.490	OH	WQFY425	SPRINGFIELD, TOWNSHIP OF	0007374507	PW	11/6/2016
151.490	WV	None				
154.665	DE	WQDE358	NEW CASTLE, COUNTY OF	0002187474	PW	8/4/2015
154.665	MD	None				
154.665	NJ	None				
154.665	NY	WNHW702	NEW YORK, STATE OF	0003438595	PW	1/15/2012
154.665	NY	WPLD212	NEW YORK, STATE OF	0003438595	PW	3/18/2012
154.665	NY	WQJT805	NEW YORK, STATE OF, DIVISION OF STATE POLICE	0003438595	PW	12/30/2018
154.665	OH	None				
154.665	WV	None				
154.695	DE	WNNL732	Delaware Div of Communications	0002187367	PW	1/25/2014
154.695	DE	WQDE358	NEW CASTLE, COUNTY OF	0002187474	PW	8/4/2015
154.695	MD	None				
154.695	NJ	None				
154.695	NY	KED892	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	9/27/2021
154.695	NY	KED896	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	2/16/2015
154.695	NY	KED904	NEW YORK, STATE OF	0003438595	PW	5/6/2012
154.695	NY	KED905	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	2/24/2022
154.695	NY	KED906	NEW YORK, STATE OF	0003438595	PW	3/31/2012
154.695	NY	KED908	NEW YORK, STATE OF	0003438595	PW	3/28/2012
154.695	NY	KED911	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	2/24/2022

PSP freqs (MHz)	State	Callsign	Co-channel owners	FRN	Group	Exp. Date
154.695	NY	KED914	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	1/29/2022
154.695	NY	KED916	NEW YORK, STATE OF	0003438595	PW	11/20/2012
154.695	NY	KJY685	NEW YORK, STATE OF	0003438595	PW	2/1/2013
154.695	NY	KNAB446	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	10/19/2015
154.695	NY	KNBB591	NEW YORK, STATE OF DIVISION OF STATE POLICE	0003438595	PW	4/10/2021
154.695	NY	KNCZ336	NEW YORK, STATE OF	0003438595	PW	11/24/2014
154.695	NY	KNFF808	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	3/24/2014
154.695	NY	KNFF810	NEW YORK, STATE OF	0003438595	PW	11/10/2012
154.695	NY	KQS583	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	3/4/2022
154.695	NY	KSJ590	NEW YORK, STATE OF - DIVISION OF STATE POLICE	0003438595	PW	2/1/2013
154.695	NY	KSX320	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	9/27/2021
154.695	NY	KTQ305	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	2/24/2022
154.695	NY	KTR624	NEW YORK, STATE OF	0003438595	PW	12/31/2020
154.695	NY	KXJ296	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	5/8/2021
154.695	NY	WNHW702	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	1/15/2022
154.695	NY	WPLD212	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	3/18/2022
154.695	NY	WPSZ553	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	8/13/2021
154.695	NY	WPTV885	STATE OF NEW YORK, DIVISION OF STATE POLICE	0003438595	PW	12/27/2021
154.695	NY	WPVU905	STATE OF NEW YORK, DIVISION OF STATE POLICE	0003438595	PW	8/26/2012
154.695	NY	WQBH841	NEW YORK, STATE OF, DIVISION OF STATE POLICE	0003438595	PW	10/12/2014
154.695	NY	WQCJ314	NEW YORK, STATE OF	0003438595	PW	3/16/2015

PSP freqs (MHz)	State	Callsign	Co-channel owners	FRN	Group	Exp. Date
154.695	NY	WQJT805	NEW YORK, STATE OF, DIVISION OF STATE POLICE	0003438595	PW	12/30/2018
154.695	NY	WZX911	NEW YORK, STATE OF	0003438595	PW	5/25/2013
154.695	OH	WQCA358	FAYETTE, COUNTY OF	0006012520	PW	1/14/2015
154.695	WV	None				
154.755	DE	None				
154.755	MD	None				
154.755	NJ	None				
154.755	NY	WPGE463	NEW WINDSOR, TOWN OF	0004484747	PW	12/27/2014
154.755	OH	None				
154.755	WV	None				
154.830	DE	None				
154.830	MD	KGB962	ELKTON, TOWN OF	0006701627	PW	4/3/2012
154.830	NJ	None				
154.830	NY	KEC984				
154.830	NY	WCP352				
154.830	OH	KQD756				
154.830	WV	None				
154.905	DE	None				
154.905	MD	KGB962				
154.905	NJ	KEE282	New Jersey Turnpike Authority - Parkway Division	0009431263	PW	12/31/2012
154.905	NY	KED911	NEW YORK, STATE OF	0003438595	PW	2/24/2012
154.905	NY	KED914	NEW YORK, STATE OF	0003438595	PW	1/29/2012
154.905	NY	KED916	NEW YORK, STATE OF	0003438595	PW	11/20/2012
154.905	NY	KNFF808	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	3/24/2014
154.905	NY	WPSZ553	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	8/13/2021
154.905	OH	None				
154.905	WV	WNWR720				
154.920	DE	None				
154.920	MD	None				
154.920	OH	None				
154.920	NJ	None				
154.920	NY	None				
154.920	WV	None				
154.950	DE	None				
154.950	MD	None				
154.950	NJ	None				
154.950	NY	None				
154.950	OH	None				
154.950	WV	None				
155.415	DE	None				
155.415	MD	KNNV447	MARYLAND, STATE OF	0007772783	PW	6/15/2013
155.415	NJ	WQHM853	WASHINGTON, TOWNSHIP	0003287034	PW	9/12/2017

PSP freqs (MHz)	State	Callsign	Co-channel owners	FRN	Group	Exp. Date
155.415	NY	None				
155.415	OH	KNBJ653	YOUNGSTOWN, CITY OF	0002921419	PW	8/22/2021
155.415	OH	KQC860	AUSTINTOWN, TOWNSHIP OF	0002916674	PW	8/21/2014
155.415	OH	KQD756	MAHONING, COUNTY OF	0008779555	PW	6/29/2013
155.415	OH	WPYS894	BOARDMAN, TOWNSHIP OF	0008979999	PW	10/17/2013
155.415	OH	WPYY934	TRUMBULL, COUNTY OF	0002922144	PW	12/4/2013
155.415	WV	None				
155.445	DE	None				
155.445	MD	None				
155.445	NJ	None				
155.445	NY	KED922	NEW YORK, STATE OF	0003438595	PW	2/12/2012
155.445	OH	None				
155.445	WV	None				
155.460	DE	None				
155.460	MD	None				
155.460	NJ	None				
155.460	NY	None				
155.460	OH	None				
155.460	WV	WNWR720	WEST VIRGINIA, STATE OF	0001982628	PW	7/3/2021
155.505	DE	None				
155.505	MD	None				
155.505	NJ	KEE282	New Jersey Turnpike Authority - Parkway Division	0009431263	PW	12/31/2012
155.505	NY	KED903	NEW YORK, STATE OF	0003438595	PW	2/24/2012
155.505	NY	KED905	NEW YORK, STATE OF	0003438595	PW	2/24/2012
155.505	NY	KED906	NEW YORK, STATE OF	0003438595	PW	3/31/2012
155.505	NY	KED908	NEW YORK, STATE OF	0003438595	PW	3/28/2012
155.505	NY	KNAD826	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	10/28/2015
155.505	NY	KNBB591	NEW YORK, STATE OF DIVISION OF STATE POLICE	0003438595	PW	4/10/2021
155.505	NY	KNFF810	NEW YORK, STATE OF	0003438595	PW	11/10/2012
155.505	NY	KTQ305	NEW YORK, STATE OF	0003438595	PW	2/24/2012
155.505	NY	KXJ296	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	5/8/2021
155.505	NY	WPRI266	STATE OF NEW YORK DIVISION OF STATE POLICE	0003438595	PW	9/27/2015
155.505	NY	WPTV885	STATE OF NEW YORK, DIVISION OF STATE POLICE	0003438595	PW	12/27/2021
155.505	OH	None				
155.505	WV	None				
155.580	DE	None				
155.580	MD	None				
155.580	NJ	KEB678	MILLVILLE, CITY OF	0010359735	PW	4/26/2015
155.580	NY	None				
155.580	OH	None				

PSP freqs (MHz)	State	Callsign	Co-channel owners	FRN	Group	Exp. Date
155.580	WV	None				
155.670	DE	None				
155.670	MD	KOM740	BALTIMORE, COUNTY OF	0002135010	PW	8/26/2021
155.670	NJ	None				
155.670	NY	None				
155.670	OH	KBF818	LIBERTY, TOWNSHIP OF	0002913887	PW	5/29/2013
155.670	WV	None				
155.790	DE	None				
155.790	MD	KGA870	HAGERSTOWN, CITY OF	0008778219	PW	7/18/2015
155.790	MD	KGB962	ELKTON, TOWN OF	0006701627	PW	4/3/2012
155.790	NJ	None				
155.790	NY	WPQF566	MONROE VOLUNTEER AMBULANCE SERVICE, INC	0004687018	PW	6/26/2015
155.790	OH	KQE577	OHIO TURNPIKE COMMISSION	0006141774	PW	9/26/2021
155.790	WV	KRV220	WEST VIRGINIA, STATE OF	0004614210	PW	3/21/2021
155.850	DE	None				
155.850	MD	None				
155.850	NJ	None				
155.850	NY	KEB339	ORANGE, COUNTY OF	0006682041	PW	2/25/2013
155.850	NY	WQIH225	ORANGE, COUNTY OF - DIV. OF EMERGENCY COMM 911	0003439320	PW	2/8/2018
155.850	OH	None				
155.850	WV	None				
155.910	DE	None				
155.910	MD	None				
155.910	NJ	None				
155.910	NY	None				
155.910	OH	None				
155.910	WV	None				
156.015	DE	None				
156.015	MD	WAM928	WASHINGTON, COUNTY OF	0002134476	PW	4/5/2014
156.015	NJ	None				
156.015	NY	KNER867	KIRYAS JOEL, VILLAGE OF	0006049142	PW	2/8/2012
156.015	OH	None				
156.015	WV	None				
156.150	DE	None				
156.150	MD	None				
156.150	NJ	None				
156.150	NY	KLV956	WALDEN, VILLAGE OF	0006077036	PW	4/10/2012
156.150	NY	KXI979	SIDNEY, VILLAGE OF	0003416096	PW	10/7/2014
156.150	OH	None				
156.150	WV	None				
158.760	DE	None				
158.760	MD	None				
158.760	NJ	None				

PSP freqs (MHz)	State	Callsign	Co-channel owners	FRN	Group	Exp. Date
158.760	NY	KEA535	Livingston County NY	0005118724	PW	6/9/2014
158.760	NY	KEC984	Tioga County of	0004485918	PW	9/3/2021
158.760	NY	WPLQ995	Livingston County NY	0005118724	PW	12/8/2012
158.760	OH	KNEX614	EAST LIVERPOOL, CITY OF	0002914885	PW	1/11/2013
158.760	WV	WYR808	MORGANTOWN, CITY OF	0007054166	PW	5/21/2012
158.910	DE	None				
158.910	MD	None				
158.910	NJ	None				
158.910	NY	KEF421	Delaware County	0003419447	PW	10/1/2013
158.910	NY	WNCT983	OLEAN, CITY OF	0003397916	PW	6/4/2015
158.910	NY	WNCY217	New York State Office of Parks, Recreation, and Historic Preservation (OPRHP)	0010969756	PW	6/20/2015
158.910	NY	WNSA451	CITY OF SALAMANCA POLICE DEPARTMENT	0013315973	PW	7/2/2015
158.910	NY	WNFE731	CATTARAUGUS, COUNTY OF	0004474649	PW	5/11/2013
158.910	NY	WPPX350	HANCOCK, VILLAGE OF	0003416567	PW	2/25/2015
158.910	OH	None				
158.910	WV	WNWR720				
159.030	DE	None				
159.030	MD	None				
159.030	NJ	None				
159.030	NY	KEC984	Tioga County of	0004485918	PW	9/3/2021
159.030	OH	None				
159.030	WV	None				
159.210	DE	None				
159.210	MD	None				
159.210	NJ	WQS861				
159.210	NY	WPFJ233				
159.210	OH	KFN589				
159.210	WV	WNWR720				

## Appendix G

### PSP VHF Applications

Site Name	Call Sign	IMSA ID Number	FCC ULS Number	Comments
ALLE76	WQGL632	11102009098482	0004970111	This site is part of IMSA # 98482
BEAV02	WQLN684	11092109097322	0004969920	
BEDF02	WQLM932	11092109097324	0004970105	
BERK02	WQLP350	11092109097325	0004969921	
BERK04	WQLP935	11092109097326	0004969922	
BLAI02	WQLN598	11092109097327	0004970106	
BRAD41	WQLQ435	11092109097328	0004969923	
BUCK40	WQLN807	11092109097329	0004970108	
BUTL01	WQLM849	11092109097330	0004969924	
CAMB02	WQLM930	11092109097331	0004969925	
CAME05	WQLM847	11092109097332	0004969927	
CENT04	WQLM963	11092109097333	0004969928	
CENT08	WQLP346	11092109097334	0004969929	
CLEA51	WQLM952	11092109097335	0004969930	
CLIN02	WQLS295	11092109097336	0004969931	
CLIN41	WQLN569	11092109097337	0004969932	
COLU01	WQLQ980	11092109097338	0004969933	
COLU02	WQLN816	11092109097339	0004969934	
CRAW01	WQLM844	11092109097340	Withdrawn	Already had all the channels licensed
CUM804	WQGL638	11102009098480	0004975031	This site is part of IMSA # 75031
DAUP01	WQLN571	11092109097341	0004972990	
ERIE92	WQGN636	11102009098479	0004975030	This site is part of IMSA # 98479
FAYE01	WQLN767	11092109097342	0004972997	
FORE07	WQLN222	11092109097343	0004970998	
GREE08	WQLT325	11092109097344	0004976843	
HUNT01	WQLT304	11092109097345	0004972769	
INID01	WQLM838	11092109097346	0004970999	
JEFF02	WQLN350	11092109097347	Withdrawn	Already had all the channels licensed
JUNI05	WQLN572	11092109097348	0004973003	
LACN01	WQGL638	11102009098480	0004975031	This site is part of IMSA # 75031
LAWR06	WQLT327	11092109097349	0004973009	



LUZE01	WQLP705	11092109097350	Withdrawn	Already had all the channels licensed
LYCO02	WQLM967	11092109097351	Withdrawn	Already had all the channels licensed
MCKE01	WQLM842	11092109097352	0004971000	
MERC92	WQGN636	11102009098479	0004975030	This site is part of IMSA # 98479
MONR03	WQLQ911	11092109097353	0004969935	
MONT01	WQLR793	11092109097354	0004969936	
PHIL02	WQLS309	11092109097355	0004969937	
PIKE01	WQLN441	11092109097356	0004970395	
POTT12	WQLM845	11092109097357	0004970398	
SNYD02	WQLN334	11092109097358	0004969938	
SOME06	WQGL629	11102009098477	0004974852	
SULL03	WQLM946	11092109097359	0004970399	
SUSQ06	WQLL432	11092109097360	0004969939	
TIOG06	WQLN813	11092216097452	0004970400	
WARR34	WQGN636	11102009098479	0004975030	This site is part of IMSA # 98479
WAYN31	WQLN353	11092109097362		
WAYN33	WQLP367	11092109097363	Withdrawn	Already had all the channels licensed
WEST03	WQGL632	11102009098482	0004970111	This site is part of IMSA # 98482
WEST30N	WQLN749	11101712098327	Withdrawn	Already had all the channels licensed
YORK16	WQLN223	11092109097364	0004975028	
YORK94	WQLM945	11092109097365	0004975029	